



Europäisches Patentamt
European Patent Office
Office européen des brevets

Publication number:

**0 199 991
A3**

12

EUROPEAN PATENT APPLICATION

21 Application number: 86104129.1

51 Int. Cl.⁵: C08L 27/18 , C08L 101/00 ,
/(C08L23/18,101:00)

22 Date of filing: 25.03.86

30 Priority: 01.04.85 CN 85100490
01.04.85 CN 85100491

43 Date of publication of application:
05.11.86 Bulletin 86/45

64 Designated Contracting States:
CH DE FR GB LI

69 Date of deferred publication of the search report:
04.04.90 Bulletin 90/14

71 Applicant: SHANGHAI INSTITUTE OF
ORGANIC CHEMISTRY ACADEMIA SINICA
Lingling Road
Shanghai(CN)

72 Inventor: Youlu, Duan
Lingling Road 345
Shanghai(CN)
Inventor: Shanrong, Ji
Lingling Road 345
Shanghai(CN)
Inventor: Tingchun, Huang
Lingling Road 345
Shanghai(CN)
Inventor: Xiongying, Yu
Lingling Road 345
Shanghai(CN)
Inventor: Jin, Sun
Lingling Road 345
Shanghai(CN)

74 Representative: Schupfner, Gerhard D. et al
Müller, Schupfner & Gauger Karlstrasse 5
Postfach 14 27
D-2110 Buchholz/Nordheide(DE)

54 Fluoropolymer alloys, their preparation and application.

57 This invention relates to fluoropolymer alloys made of melt fabricatable extra-high-molecular weight fluorinated ethylene-propylene copolymer (EHMW-FEP) and one or more other polymers. In fluoropolymer alloys made of EHMW-FEP and polytetrafluoroethylene, weight percentage of the former is 0.1-99.9% and the latter is 99.9-0.1%. The processes for preparing fluoropolymer alloys are blend of dried powder co-mill or wetted powder co-mill. Using the fluoropolymer alloys of this invention, various kinds of articles have been fabricated by melt compression or cold compaction and sintering. These properly fabricated articles show a great improvement in creep property and also a prolonged service life in comparison with those made from

ordinary Polytetrafluoroethylene.

EP 0 199 991 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 86 10 4129

DOCUMENTS CONSIDERED TO BE RÉLEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	EP-A-0 088 414 (DAIKIN KOGYO) * Abstract; page 1, line 24 - page 2, line 18; page 4, lines 4-12; page 4, line 20 - page 5, line 20; page 7, lines 19-26 * ---	1-3	C 08 L 27/18 C 08 L 101/00 // (C 08 L 27/18 C 08 L 101:00)
X	EP-A-0 106 764 (SOCIETE CHIMIQUE DE CHARBONNAGES) * Page 2, lines 15-34; claim 9 * ---	1-2,10	
X	GB-A-2 144 761 (NIPPON PISTON RING) * Claim * ---	1,2	
X	GB-A- 935 706 (E.I. DU PONT DE NEMOURS) * Claim 1 * -----	1-4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 08 L C 08 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-12-1989	Examiner GOOVAERTS R.E.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	